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FROM: Winston Hsu, PATENT AGENT, REG. NO. : 41,526

SERIAL NO.: 10/605,716

ATTORNEY DOCKET NO.: MTKP0050USA

SUBJECT: INFORMATION DISCLOSURE STATEMENT

TOTAL PAGES: 12 PAGES (INCLUDING COVER PAGE)

Winston Hsu 2004/08/26

MTKP0050USA0_D1_1

PTO/SB/07 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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on 08/26/2004
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Signature

Celia Hsieh
Typed or printed name of person signing Certificate

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APPLICATION NUMBER: 10/605,716

PAPERS INCLUDED:

- | | |
|--------------------------------------|---------|
| (1) Transmittal Form | 1 PAGE |
| (2) Fee Transmittal | 1 PAGE |
| (3) Information Disclosure Statement | 8 PAGES |

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/21 (02-04)

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| | | | |
|--|----|------------------------|-------------|
| TRANSMITTAL FORM <i>(To be used for all correspondence after initial filing)</i> | | Application Number | 10/605,716 |
| | | Filing Date | 10/21/2003 |
| | | First Named Inventor | Li-Chun Tu |
| | | Art Unit | 2186 |
| | | Examiner Name | |
| Total Number of Pages in This Submission | 10 | Attorney Docket Number | MTKP0050USA |

| ENCLOSURES (Check all that apply) | | | |
|--|---|---|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> After Allowance communication to Technology Center (TC) | |
| <input type="checkbox"/> Fee Attached | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences | |
| <input type="checkbox"/> Amendment/Reply | <input type="checkbox"/> Petition | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) | |
| <input type="checkbox"/> After Final | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information | |
| <input type="checkbox"/> Affidavits/declaration(s) | <input type="checkbox"/> Power of Attorney, Revocation | <input type="checkbox"/> Status Letter | |
| <input type="checkbox"/> Extension of Time Request | <input type="checkbox"/> Change of Correspondence Address | <input type="checkbox"/> Other Enclosure(s) (please identify below): | |
| <input type="checkbox"/> Express Abandonment Request | <input type="checkbox"/> Terminal Disclaimer | | |
| <input checked="" type="checkbox"/> Information Disclosure Statement | <input type="checkbox"/> Request for Refund | | |
| <input type="checkbox"/> Certified Copy of Priority Document(s) | <input type="checkbox"/> CD, Number of CD(s) | | |
| <input type="checkbox"/> Response to Missing Parts/ Incomplete Application | | | |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | | | |
| Remarks | | | |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | |
|--|-------------------------------|
| Firm or Individual name | Winston Hsu, Reg. No.: 41,526 |
| Signature | <i>Winston Hsu</i> |
| Date | 8/26/2004 |

| CERTIFICATE OF TRANSMISSION/MAILING | | |
|---|--|------|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. | | |
| Typed or printed name | | |
| Signature | | Date |

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PTO/SB/17 (10-03)

Approved for use through 07/31/2008. OMB 0651-0032
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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$0.00)

Complete if Known

| | |
|----------------------|-------------|
| Application Number | 10/605,716 |
| Filing Date | 10/21/2003 |
| First Named Inventor | Li-Chun Tu |
| Examiner Name | |
| Art Unit | 2186 |
| Attorney Docket No. | MTKP0050USA |

METHOD OF PAYMENT (check all that apply)

 Check Credit card Money Order Other None
 Deposit Account:Deposit Account Number
50-3105Deposit Account Name
North America Intellectual Property Corp.

The Director is authorized to: (check all that apply)

- Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) or any underpayment of fee(s)
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
|----------------------------|----------------------------|------------------------|----------|
| 1001 770 | 2001 385 | Utility filing fee | |
| 1002 340 | 2002 170 | Design filing fee | |
| 1003 530 | 2003 265 | Plant filing fee | |
| 1004 770 | 2004 385 | Reissue filing fee | |
| 1005 160 | 2005 80 | Provisional filing fee | |
| SUBTOTAL (1) (\$0.00) | | | |

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Total Claims | Independent Claims | Extra Claims | Fee from below | Fee Paid |
|--------------|--------------------|--------------|----------------|----------|
| | | -20** = | X | = |
| | | -3** = | X | = |
| | | | | |

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
|----------------------------|----------------------------|--|----------|
| 1202 18 | 2202 9 | Claims in excess of 20 | |
| 1201 86 | 2201 43 | Independent claims in excess of 3 | |
| 1203 290 | 2203 145 | Multiple dependent claim, if not paid | |
| 1204 86 | 2204 43 | ** Reissue independent claims over original patent | |
| 1205 18 | 2205 9 | ** Reissue claims in excess of 20 and over original patent | |
| SUBTOTAL (2) (\$0.00) | | | |

** or number previously paid, if greater; For Reissues, see above

3. ADDITIONAL FEES

| Large Entity | Small Entity | Fee Description | Fee Paid |
|-----------------------------------|--------------|--|----------|
| 1051 130 | 2051 65 | Surcharge - late filing fee or oath | |
| 1052 50 | 2052 25 | Surcharge - late provisional filing fee or cover sheet | |
| 1053 130 | 1053 130 | Non-English specification | |
| 1812 2,520 | 1812 2,520 | For filing a request for ex parte reexamination | |
| 1804 920* | 1804 920* | Requesting publication of SIR prior to Examiner action | |
| 1805 1,840* | 1805 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 110 | 2251 55 | Extension for reply within first month | |
| 1252 420 | 2252 210 | Extension for reply within second month | |
| 1253 950 | 2253 475 | Extension for reply within third month | |
| 1254 1,480 | 2254 740 | Extension for reply within fourth month | |
| 1255 2,010 | 2255 1,005 | Extension for reply within fifth month | |
| 1401 330 | 2401 165 | Notice of Appeal | |
| 1402 330 | 2402 165 | Filing a brief in support of an appeal | |
| 1403 290 | 2403 145 | Request for oral hearing | |
| 1451 1,510 | 1451 1,510 | Petition to institute a public use proceeding | |
| 1452 110 | 2452 55 | Petition to revive - unavoidable | |
| 1453 1,330 | 2453 665 | Petition to revive - unintentional | |
| 1501 1,330 | 2501 665 | Utility issue fee (or release) | |
| 1502 480 | 2502 240 | Design issue fee | |
| 1503 640 | 2503 320 | Plant issue fee | |
| 1460 130 | 1460 130 | Petitions to the Commissioner | |
| 1607 50 | 1807 50 | Processing fee under 37 CFR 1.17(q) | |
| 1806 180 | 1806 180 | Submission of Information Disclosure Stmt | |
| 8021 40 | 8021 40 | Recording each patent assignment per property (times number of properties) | |
| 1809 770 | 2809 385 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1810 770 | 2810 385 | For each additional invention to be examined (37 CFR 1.129(b)) | |
| 1801 770 | 2801 385 | Request for Continued Examination (RCE) | |
| 1802 900 | 1802 900 | Request for expedited examination of a design application | |
| Other fee (specify) | | | |
| *Reduced by Basic Filing Fee Paid | | | |
| SUBTOTAL (3) (\$0.00) | | | |

(Complete if applicable)

| | | | | | |
|-------------------|--------------------|-----------------------------------|--------|-----------|--------------|
| Name (Print/Type) | Winston Hsu | Registration No. (Attorney/Agent) | 41,526 | Telephone | 886289237350 |
| Signature | <i>Winston Hsu</i> | | | Date | 8/26/2004 |

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PTO/SB/088 (08-03)

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| | | | | | |
|---|--|----|----------|--------------------------|--------------------|
| <p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(Use as many sheets as necessary)</i></p> | | | | Complete if Known | |
| Sheet 1 | | of | 1 | Application Number | 10/605,716 |
| | | | | Filing Date | 10/21/2003 |
| | | | | First Named Inventor | Li-Chun Tu |
| | | | | Art Unit | 2186 |
| | | | | Examiner Name | |
| | | | | Attorney Docket Number | MTKP0050USA |

NON PATENT LITERATURE DOCUMENTS

| | | | |
|-------------------------------|--|--------------------|--|
| <u>Examiner Signature</u> | | Date Considered | |
|-------------------------------|--|--------------------|--|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). **2** Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PATENT**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

5 Applicant(s): Li-Chun Tu
Ping-Sheng Chen
Pao-Ching Tseng
Hung-Cheng Kuo
Filing Date: 10/21/2003 Art Unit: 2186
10 App. No.: 10/605,716 Docket No.: MTKP0050USA

Title: PROCESSOR HAVING AN UNSHARED STACK MEMORY

15 To: Commissioner for Patents
P.O. BOX 1450
Alexandria, VA 22313-1450

Subject: Information disclosure statement under 37 CFR
20 §1.56.

Dear Sir/Madam:

This is an Information Disclosure Statement in
25 accordance with the duty to disclose information
material to patentability under 37 CFR §1.56. The
applicants wish to make of record the documents listed
on the accompanying form PTO/SB/08. It is respectfully
requested that the examiner initials the cited
30 reference on the form and that it be made of record
in the application and that a copy of the initialed
form be sent to the applicants with the next

communication from the examiner.

Since the IDS is filed before the mailing date of a first Office action on the merits, a petition to request consideration of the information disclosure statement is hereby requested according to 37 CFR §1.97(b). To comply with 37 C.F.R. §1.97(e), which states that each item of information contained in the information disclosure statement was first cited in any communications from a foreign application not more than three months prior to the filing of the information disclosure statement, the reference document contained in the information disclosure statement was first cited in the communication from the Taiwan Intellectual Property Office on June 17, 2004 for a counterpart foreign application. The applicants sincerely hope that the examiner can consider the items contained in this IDS.

According to the requirement set forth in 37 CFR §1.98 and MPEP 609, the applicants are submitting a copy of the cited paragraph 3-2 from a reference book (published Sep. 1, 1999). The reference document describes the data transfer instructions of the MCS-51 (a well-known 8051 processor manufactured by Intel®) instruction set, such as MOV, MOVC, and MOVX. Since the data transfer instructions are well known to anyone skilled in the art, the lengthy description is omitted for the sake of brevity.

30

The independent claim 1 is repeated as follows.

1. A processor comprising:
a central processing unit (CPU) processing data
according to an instruction set;
a data memory storing non-stack data;
5 **a stack memory storing stack data;**
a memory address generator producing addresses for
accessing the data memory; and
**a stack pointer generator producing pointers for
accessing the stack memory.**

10

As one can see, the cited reference fails to teach
how to use the memory space of the stack memory instead
of the internal data memory when the instructions (e.g.
the instructions CALL and RETURN) need to use a stack
15 for storing data. Therefore, it is believed that the
cited reference fails to teach all of the limitations
in claim 1 of the present invention.

20 Respectfully Submitted,

Winston Hsu Date: 8/26/2004
Winston Hsu, Patent Agent No. 41,526
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(Please contact me by e-mail if you need a telephone
30 communication and I will return your call promptly)